

Abstract Of The Disclosure

A gas sensor for measuring at least one gas concentration, in particular for a vehicle climate control system, having a substrate, an IR radiation source fastened on the substrate, an IR detector fastened on the substrate, a measurement chamber for receiving a gas having the gas concentration that is to be measured, a shielding device situated in the measurement chamber between the IR radiation source and the IR detector, for shielding a direct transmission of IR radiation from the IR radiation source to the IR detector along an optical axis, and a reflective surface that has a concavely curved first mirrored area for receiving the IR radiation emitted by the IR radiation source, and that has a concavely curved second mirrored area that reflects the IR radiation to the IR detector, the measurement chamber being formed between the reflective surface and the substrate.